

TEODORESCU, N.

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*25*

Bucharest, Romania, Vol. I, No. 5, pp. 42

1. "Comparative Determination of Vapors", Prof. Dr. Gheorghe Mihai, Univ. of Bucharest, Faculty of Pharmacy, Bucharest, Romania, pp. 1-10.
2. "Determination of the Analytical Methods of the Laboratory of the Faculty of Pharmacy (Al. I. Cuza), Bucharest, Romania, pp. 25-261.
3. "Comparative Study of the Methods of Histidine Determination as Applied in Biochemistry", Prof. Dr. Gheorghe Mihai, Univ. of Bucharest, Faculty of Pharmacy, Bucharest, Romania, pp. 262-268.
4. "Study of Sulfur Oil Used in Injektolol Oil of Solvent (U.S.P.)", Prof. Dr. Gheorghe Mihai, Univ. of Bucharest, Faculty of Pharmacy, Bucharest, Romania, pp. 269-275.
5. "The Identification, Determination and Extraction of Alkaloids from Schizanthus, Paris", Prof. Dr. Gheorghe Mihai, Univ. of Bucharest, Faculty of Pharmacy, Bucharest, Romania, pp. 276-282.
6. "Contribution to the Use of Drugs in the Drug Differentiating in the Clinic of Dr. Gheorghe Mihai, Univ. of Bucharest, Faculty of Pharmacy, Bucharest, Romania, pp. 283-287.

SOV/44-58-4-2965

Translation from: Referativnyy zhurnal, Matematika, 1958,  
Nr 4, p 77 (USSR)

AUTHOR: Teodorescu, N.

TITLE: Shock Wave in the Invariant Theory of Wave Propagation  
(Udarnaya volna v invariantnoy teorii rasprostraneniya  
voln)

PERIODICAL: Zh. matem. i fiz. Akad. RNR, 1954, Nr 3, pp 114-131

ABSTRACT: Bibliographic entry.

Card 1/1

BOLD, I., ing.; TEODORESCU, N.; CRISTEA, V., ing.; DABROWSKI, R., ing.

Some aspects of the organization of the labor of the brigade  
of the territorial management organization. Rev. geodezie 7  
no.2:46-55 '63.

1. I.S.P.O.T.A. (for Bold, Teodorescu). 2. O.R.P.O.T., Oltenia  
(for Cristea). 3. Sc. Fd. Funciar R. Craiova (for Dabrowski).

GIOGOLEA, G., prof.; MORAIT, G.; TEODORESCU, N.

A new method for the determination of caesium. Rumanian M Rev. no.4:  
87-90 O-D '60.

(CESIUM chemistry)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

APPROVED FOR RELEASE: 07/16/2001

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"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4"

*Teodorescu, N.*

**V** Teodorescu, N. L'onde de choc dans la théorie invariante de la propagation des ondes. Acad. Repub. Pop. Române, Bul. Ști. Secți. Ști. Mat. Fiz. 5, 19-39 (1953). (Romanian. Russian and French summaries)

Let  $u(M)$  satisfy the linear partial differential equation

$$(*) \quad a^i \partial^2 u / \partial x^i \partial x^j + b^i \partial u / \partial x^i + c u = f$$

of hyperbolic type in  $n$ -dimensional space-time  $V_n$ . If on some  $(n-1)$ -dimensional hypersurface  $S_{n-1}$  of  $V_n$  a first partial derivative of  $u$  in an exterior direction has a jump discontinuity while the first partial derivatives in interior directions are continuous, then  $S_{n-1}$  is called a shock wave. Let  $\alpha$  be the jump of  $u$  and let the jump of the exterior first partial derivative be characterized by  $\lambda$ . If the values of  $\alpha$  on  $S_{n-1}$  and of  $\lambda$  on an  $(n-2)$ -dimensional subspace  $S_{n-2}$  of  $S_{n-1}$  determine  $\lambda$  on  $S_{n-1}$ , the shock is said to be propagable. A shock is propagable if and only if  $S_{n-2}$  is space-like and  $S_{n-1}$  is a characteristic hypersurface of (\*). The author derives a linear ordinary differential equation governing the variation of  $\lambda$  on the bicharacteristics of  $S_{n-1}$  and calls attention (cont)

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Teodorescu, N.

to a term omitted in a similar discussion in J. Hadamard's *Leçons sur la propagation des ondes*. [Hermann, Paris, 1903]. Finally the propagation of the wave  $S_{n,1}$  in  $S_{n,2}$  is interpreted in terms of the concept of corpuscle a unit of multiplicity of  $(n-2)$ -dimensional contact elements with centers on  $S_{n,2}$ , previously introduced by the author in an earlier (unavailable) paper [An. Acad. Repub. Pop. Române Sect. Sti. Mat. Fiz. Chim. Ser. A, 3, no. 27 (1950)].

J. H. Giese.

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Re

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4"

TEODORESCU, N.

"Rumanian Soviet research on the theory of univalent derivatives and monogenic functions (<). "p. 389; "Issued by the Rumanian Society of Mathematics and Physics, Monthly ". (GAZETA MATEMATICA SI FIZICA, SERIA A., Vol. 6, no. 8/9, Aug. /Sept. 1954. Bucuresti, Rumania.)

SO: Monthly List of East European Accession, (EVAL), LC, Vol. 4, No. 5, May, 1955, Unci.

TEODORESCU, H.

"Dimitrie Pompeiu; an obituary", p. 431; "Issued by the Romanian Society of Mathematics and Physics. Monthly". (GAZETA MATEMATICA SI FIZICA, SERIA A., Vol. 6, no. 10, Oct., 1954.. Bucuresti, "Humanitas").

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4., No. 5, May, 1955.

TEODORESCU, N.

Achievements at the Institute of Mathematics of the Rumanian Academy during the first five-year-period. p. 640.  
GAZETA MATEMATICA SI FIZICA. SERIA A. Bucuresti. Vol. 7, no. 12, Dec. 1955.

SOURCE: East European Accessions List(EEAL) Library of Congress  
Vol. 5, No. 7, July 1956.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4"

TEODORESCU, N.

The 4th Congress of Rumanian Mathematicians. p. 376

GAZETA MATEMATICA SI FIZICA. SERIA A. (Societatea de Stiinte  
Matematice si Fizice din Romania)  
Vol. 8, no. 7, July 1956

Bucuresti, Rumania

SOURCE: East European List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957

TEODORESCU, N.

Teodorescu, N. Sur l'unicité de la forme de l'équation  
du conoïde caractéristique. Acad. R. P. Române. Fil.  
Cluj. Stud. Cerc. Mat. Fiz. 7 (1956), no. 1-4, 7-14.  
(Romanian. Russian and French summaries) 2

The object of this note is to give a rigorous proof of a result due to Hadamard, that the square of the geodesic distance is the unique solution of  $\Delta_1 \Gamma = 4\Gamma$ , where  $\Delta_1$  is Beltrami's first differential parameter in a Riemannian space of metric  $ds^2$ . Actually the following more general result is proved: If the equation  $\Delta_1 G = 4\lambda^2 G$ , where  $\lambda$  is a function of  $(x_1, x_2, \dots, x_n)$ , has holomorphic coefficients, it has a unique holomorphic solution vanishing on the characteristic conoid with vertex  $O$ , and this solution is the square of the geodesic distance from  $O$  in the Riemannian space of metric  $d\sigma^2 = \lambda^2 ds^2$ .

E. T. Copson (St. Andrews)

8/044/62/000/009/033/069  
A060/A 000

AUTHOR: Teodorescu, N.

TITLE: Spatial derivatives and a generalization of the fundamental differential operators Grad, Div, Rot of field theory

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 74, abstract 9B354  
("Bull. math. Soc. sci. math. et phys. RPR", 1959, 3, 363 - 383,  
French)

TEXT: The paper proposes a generalization of the operators Grad, Div, Rot to the case of nondifferentiable fields, taking the transformation properties into account. The author makes systematic use of the notion of space derivative proposed by him. The paper indicates the relationship between the theory developed by its author and the known results of S. L. Sobolev (S. L. Sobolev, "Nekotoryye primeneniya funktsional'nogo analiza v matematicheskoy fizike" ("Some Applications of Functional Analysis to Mathematical Physics"), Leningrad, 1950).

[Abstracter's note: Complete translation]

O. S. Parasyuk

Card 1/1

TEODORESCU, N.  
SURNAME (in code), Given Names

Country: Rumania

Academic Degrees: --

Affiliation: Corresponding Member of the Academy of R.P.R. (Academia  
R.P.R.)

Source: Bucharest, Comunicările Academiei Republicii Populare Române,  
No 4, 1961, pp 375-382.

Data: The

"Approximations of Holomorph Functions (x) by  $\lambda$  Areolar  
Polynomials."

TEODORESCU, N. (Bucuresti)

Global areolar derivative and generalized derivative. Bull math  
Rum 6 no.3/4:239-255 '62 [publ. '64].

1. Submitted October 28, 1963.

TEODORESCU, N. (Rumania)

Data on the global, areoral (spatial) differential quotient and  
the generalized Vecua's differential quotient as interpreted by  
Sobolev. Mat lopak 13 no.1/2:209-210 '62.

TEODORESCU, N.

On some Finsler spaces. Studii cerc mat 13 no.3:499-510 '62.

TEODORESCU, N., acad.

Mathematics and youth aspirations. Gaz mat B 14 no.6:321-326 Je '63.

1. Dean, Faculty of Mathematics and Mechanics, Bucharest University.

TEODORESCU, N.

The 1962 Lenin Prizes in the field of mathematics and application of mathematics. Gaz mat fiz 14 no.8:431-434 Ag '62.

1. Decanul Facultatii de matematica si fizica a Universitatii din Bucuresti.

TEODORESCU, N., academician

Generalized derivative  $\frac{d}{dz}$  of the functions  $f(z)$  of the class  $C^1$  ( $\Delta$ ). Comunicările ARDI 13 no.4:339-342 Ap '63.

RUMANIA

TEODORESCU, N., Univ Prof, Member of the RPR Academy (Membru al Academiei PPR) [affiliation not given]

"Mathematics and Some Philosophical Problems."

Bucharest, S'ciinta si Tehnica, Vol 15, No 7, Jul 63, pp 10-12, 19.

Abstract: A Marxist evaluation of abstractions and "objective reality", with emphasis on the significance of mathematical abstractions and their roots in the real world. Also discusses the "incorrect" concepts of mathematical abstraction advanced by the idealist school of thought. Justifies material-dialectic concepts in mathematics by referring to current advances in science, technology, economy and culture.

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TEODORESCU, N., acad.

Prospects for the youth who study mathematics. *Gaz mat*  
B 15 no. 6:241-244 Je '64.

1. Dean of the Faculty of Mathematics and Mechanics,  
Bucharest University.

TEODORESCU, P., prof.; SAVULESCU, V., dr.; ANDRONACHE, I., dr.

Clinical aspects of the pre-ulcerous phase of ulcerous disease.  
Stages of the evolution of peptic ulcer. Med. intern. (Bucur.)  
16 no.12:1497-1504 D '64

1. Lucrare efectuata in Clinica medicala a Spitalului unificat de  
adulti al Raionului Tudor Vladimirescu, Institutul medico-far-  
maceutic, Bucuresti.

OERIU, S.; MOGA, V.; BERTESCU, L; BENSCH, H.; CRACEA, M.; TEODORESCU, O.

Research in obtaining products with tuberculostatic action. Note II.  
Correlations between the chemical and physicochemical properties,  
structure, and biological properties of some products obtained from  
coniferous resins. Studii cerc chim 7 no.4: 531-548 '59. (EEAI 9:7)

1. Collectivul de chimioterapie al Academiei R.P.R., Bucuresti. 2.  
Membru correspondent al Academiei R.P.R. (for Oeriu)  
(Gums and resins) (Coniferae) (Tuberculosis)  
(Bactericidal action) (Therapeutics)

OERIU, S., acad.; MOGA, V.; BERTESCU, L.; BENESCH, H.; CRACEA, M.;  
TEODORESCU, O.

Obtainment of tuberculostatic products. Note II. Correlations between the chemical and physicochemical properties, the biological structure and properties of certain products obtained from the resins of Coniferae. Rev chimie 6 no.1:159-174 '61.

1. Collectif de chimiotherapie de l'Academie de la R.P.R., Bucarest.
2. Membre correspondant de l'academie de la R.P.R. (for Oeriu)

OERIU, S.; COSTESCU, G.; TEODORESCU, O.; SOIMU, I.

Activity of cocarboxylase and transaminase, and capacity of transacetylation in the process of aging. Studii cerc biochimie 5 no.3: 337-342 '62.

1. Catedra de biochimie a Facultatii de medicina generala din I.M.F., Bucuresti. 2. Membru corespondent al Academiei R.P.R. si membru al Comitetului de redactie, "Studii si cercetari de biochimie" (for Oeriu).

OERIU, S.; TIGHECIU-DUMITRESCU, M.; ENACHE-PEREDERI, L.; GRIGORESCU, G.;  
MANESCU, M.; COSTESCU, G.; TEODORESCU, O.; SOIMU, I.; TANASE, I.;  
DINU, V.; GEORGESCU, P.; POPESCU, I.; PAUNESCU, E.

Session of the Society of Medical Sciences; April 24, 1962. Studii  
cerc biochimie 5 no.3:477-478 '62.

1. Catedra de biochimie I.M.F. (for Oeriu, Tigheciu-Dumitrescu,  
Enache-Perederi, Grigorescu, Manescu, Costescu, Teodorescu,  
Soimu, Tanase, and Dimu). 2. Institut de fiziologie (for Georgescu,  
Popescu, and Paunescu).

OERIU, S. [Oeriu, S.]; KOSTESKU, G. [Costescu, G.]; TEODORESKU, O. [Teodorescu, O.]

Glutaminase activity in the cerebral cortex of rats of different ages and the effect of cysteine on glutaminase in the brain of aged animals. Ukr. biokhim. zhur. 35 no.2:163-167 '63. (MIRA 17:9)

1. Laboratoriya biokhimii Meditsinskogo i farmatsevticheskogo instituta, Bukharest.

TEODORESCU, P.

"Contributions to the problem of ventilation in railroad tunnels in operation. II."

p. 93 (Probleme Feroviare) Vol. 3, no. 3, Mar. 1957  
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

TEODORESCU, P., ing.

Supporting subterranean excavations by bolting operations. Rev  
cailor fer 10 no.12:627-633 D '62.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4"

TEODORESCU, P., ing.

Supporting subterranean excavations by bolting operations. Rev  
caillor fer 11 no.1:23-29 Ja '63.

TEODORESCU, Petre, ing.

Tunnel constructions by complete excavation of a section.  
Rev sailor fer 12 no.2887-94 F '64

TEODORESCU, P., ing.

Waterproofing tunnels by the claying method in a Rumanian railroad tunnel. Pt. 1. Rev cailor fer 12 no. 5:248-254 My '64.

TEODORESCU, P., ing.

Waterproofing of tunnels by the claying method, with application  
in a Rumanian railroad tunnel. Pt. 2. Rev caior fer 12 no. 7;  
368-373 Jl '64.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4

TEODORESCU, P., ing.

*Lighting of railway tunnels. Rev. sailor for 12 no. 91482-487  
S '64.*

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310005-4"

TEODORESCU, P.

Considerations on penal regulations for protection of quality of products. p. 32.  
(Standardizarea, Vol. 9, No. 1, Jan. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Acces:ions (EEAL) Lc. Vol. 6, No. 8, Aug. 1957. Uncl.†

USSR / General Problems of Pathology. Experimental Therapy. U-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, № 46894

Author : Teodorescu, P.; Fronda, Nadia; Iliescu, V.

Inst : Not given

Title : Clinical Uses of Triethylenemelamine (TEM)

Orig Pub : Viat. med., 1956, 3, № 11, 19-28

Abstract : Three cases of successful lymphagranulomatosis (Hodgkin's disease) treatment are reported by using the TEM compound (2-4 mg daily internally). During the course of the disease the patients received 15-20 mg of TEM, and after 10-15 days the treatment was repeated. Complications (leukopenia) occurred more often in cases of repeated therapy, and in patients with lowered acidity or with achlohydria. In these cases blood transfusions as well as intake of vitamins C and B<sub>12</sub>, antibiotics and cortisone preparations are recommended. Children tolerate treatment with TEM well.

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TEODORESCU, R. dr.

GEIB, R., Dr.; FAIBISCH, B., dr.; TEODORESCU, P., dr.

Report of some cases of non-occupational brucellosis. Med. int., Bucur. 9 no.4:618-624 Apr 57.

1. Lucrare efectuata in Clinica I medicala si Clinica de boli contagioase a Spitalului "Colentina."

(BRUCELLOSIS, case reports

non-occup., probably caused by consumption of dairy products)

(MILK

cream & cheese as probable causes of brucellosis)

TEODORE, CU, P. Prof.; BERCEANU, St., Dr.; LIS, N. Dr.; SIRBULESCU, R. Dr.

Endomyocardofibrosis; clinical and morphopathological aspects.  
Med. int., Bucur. 9 no.5:74 -751 May 57.

1. Lucrare efectuata in Clinica a VI-n medicala I.M.F. a Spitalului  
Dr. I. Cantacuzino.

(HEART DISEASES

endomyocardial fibrosis, clin. & pathol. aspects)

TEODORESCU, P.; BERCOVICI, S.; FRONDA, Nadia

Hepato-biliary repercussions of hepatic hydatidosis. Med. int., Bucur.  
9 no.8:1246-1259 Aug 57.

1. Lucrare efectuata in Clinica a VI-a medicala I.M.F. si Spitalul  
"Cantacuzino".

(LIVER DISEASES

echinococcosis, causing obstruct. dyskinesia, lithiasis &  
other disord. of biliary tract)

(BILIARY TRACT, DIS.

dyskinesia, lithiasis, obstruct. & other disord. caused  
by hepatic echinococcosis)

EXPERIENȚA MEDICĂ Sec 6 Vol 13/2 Internal Med. Aug 50

4290. THE U-WAVE IN CLINICAL ELECTROCARDIOGRAPHY - Unda U în  
electrocardiografia clinică - Teodorescu P. and Sirbulescu R.,  
Clin. a III-a Med. I.M.F., București - MED. INTERNA (București) 1958,  
10/4 (575-584) Graphs 3

Morphological data on the U-wave and the TU-segment are presented. From the pathological point of view, alterations in the U-wave are significant with respect to disturbances in serum K level. Greater or lesser alterations in the direction of the U-wave (secondary to the S-T segment alterations) may take place in the curves of hypertensive patients with ventricular overload. Negativation has a prognostic significance, in that it indicates aggravation of the disease. When the negativation occurs alone, it is a sign of coronary involvement, given the presence of the characteristic symptoms.

Nicolaeșco - Bucarest (XVIII, 6)

E.CERPTA MEDICA Sec 18 Vol 3/10 Cardio. Diseases Oct 59

2727. The adrenal gland and heart failure. Functional tests and therapeutical attempts  
Glanda suprarenala si insuficienta cardiaca. Aprecieri functionale si incercari tera-  
peutice. TEODORESCU P., STEFAN I., LILIS M., SIRBULESCU R., CONSTANTINESCU P.  
and TINCU S. Clin. a III-a Med., Spital 'Dr. I. Cantacuzino', Bucuresti Med. interna  
(Bucuresti) 1958, 10/12 (1791-1800) Graphs 4 Tables 2

A study of the functional condition of the adrenals in 56 cases of compensated and  
decompensated heart disease revealed that in these patients there is hypofunction  
of the adrenal cortex, the severity of which increases parallel with the severity of  
the cardiac insufficiency. The improvement of the clinical signs of cardiac insuffi-  
ciency and the restoration of the response to cardiotonics and mercurial diuretics,  
which were observed in 13 of these patients after treatment with  $\Delta$ -cortisone, are  
attributed to the anti-aldosterone effect of the drug rather than to its substitutive  
(XVIII, 3, 6)

TEODORESCU, P.; STEFAN, I.; LILIS, M.; SIRBULESCU, R.; CONSTANTINESCU, P.;  
TINCU, S.

The adrenal glands & cardiac failure: functional tests & therapeutic  
attempts. Rumanian M. Rev. 3 no.1:15-21 Jan-Mar 59.

(CONGESTIVE HEART FAILURE

adrenal cortex funct. & prednisone ther.)

(ADRENAL CORTEX, physiol.

in congestive heart failure, application to prednisone  
ther.)

(PREDNISONE, ther. use

congestive heart failure, indic. by adrenal cortex funct.)

TEODORESCU, P., dr.; ILIESCU, V., dr.; IONASESCU, R., dr.

Essential cryoglobulinemia. Med. intern. 14 no.10:1217-1223 0 '62.

1. Lucrare efectuata in Clinica medicala a Spitalului "Barnat Andrei"  
(director: prof. P. Teodorescu), Bucuresti.

(CRYOGLOBULINS) (MYOCARDIUM) (SCLEROSIS)  
(AURICULAR FIBRILLATION)

TEODORESCU, P., Prof.

Current etiopathogenetic aspects of arterial hypertension.  
Med. intern., Bucur. 11 no.5:641-651 '60.

1. Clinica medicala, Spitalul "Dr. I. Cantacuzino".  
(HYPERTENSION, etiology)  
(KIDNEY DISEASES, complications)  
(ADRENAL GLANDS, diseases)  
(CAROTID SINUS, pathology)

TEODORESCU,P.,Prof.; LILIS,M.,dr.; MARES,A.,dr.; CONSTANTINESCU,D.,dr.

Acute cerebral circulatory insufficiency. Med. intern., Bucur 11  
no.5:691-698 '60.

1. Lucrare efectuata in Clinica medicala, Spitalul "Dr. I. Cantaczino",  
Bucuresti.  
(BRAIN,blood supply)

TEODORESCU, P., prof.; BERCEANU, St.; SASARMAN, Maria; HERGOT, Lucia;  
MANESCU, Gh.; PRISCU, Al.

Clinical, haematological serological, and histopathological investigations  
on splenopathies with a therapeutic indication of splenectomy. Rumanian  
M Rev. no.4:21-28 0-D '60.  
(SPLEEN diseases)

TEODORESCU, P., prof.; ILESCU, V., dr.; IONASESCU, R., dr.; COSEANU, C., dr.

On a case of benign inoculation reticulosis (cat-scratch disease).  
Med. intern., Bucur 12 no.11:1677-1682 N '60.  
(CAT-SCRATCH DISEASE case reports)

TEODORESCU, P., prof.; STEFAN, I.; LILIS, M.; SIRBULESCU, R.; TINCU, S.;  
POMPILIAN, P.

Contributions to the functional characterization of the adrenal cortex  
in heart failure. Rumanian M Rev. no.1:272 Ja-Mr '61.

1. Medical Clinic, Catacuzino Hospital, Medicopharmaceutical Institute,  
Bucharest. Head of the Clinic: Prof. P. Teodorescu.  
(ADRENAL CORTEX physiology) (HEART FAILURE, CONGESTIVE physiology)

TEODORESCU, P., prof.; LILIS, M., dr.; STEFAN, I., dr.; TINCU, Silvia, chemist;  
SIRBULESCU, R., dr.; POMPILIAN, P., dr.; CUCU, N., dr.; STERIAN, Iolanda

Treatment with sulfonamide diuretics in refractory cardiac insufficiency. Med. intern., Bucur 13 no.1:121-135 Ja '61.

(HEART FAILURE, CONGESTIVE therapy)  
(CHLOROTHIAZIDE related cpds)

TEODORESCU, P., prof.; CARP, C., dr.; SIRBULESCU, R., dr.†

Etiopathogenetic and clinical study of 50 cases of unstable bundle branch block. Med. intern., Bucur 13 no.2:179-193 F '61.

1. Lucrare efectuata in Clinica medicala, Spitalul "Bernat Andrei", I.M.F. Bucuresti.

(HEART BLOCK)

TEODORESCU, P., prof.; SJIRBULESU, R., dr.; DEGERATU, T., dr.; POMPILIAN, P., dr.; NICOLAESCU, V., dr.; GEORGESCU, M., dr.

Clinical and therapeutic aspects of fixed and malignant forms of arterial hypertension. *Med. inter.*, Bucur 13 no.3:353-358 Mr '61.

1. Lucrare efectuata in Clinica a III-a medicala I.M.F., Bucuresti. (HYPERTENSION therapy)

TEODORESCU, P., prof.; SASARMAN, Maria, dr.; IONAESCU, Gabl., dr.

Idopathic hypoprothrombinemia. Med. intern. 3:317-323 Mr '62.

1. Lucrare efectuata in Clinica medicala a Spitalului "Bernat Andrei"  
(director: prof. P. Teodorescu).

(HEMORRHAGIC DIATHESIS case reports)

SAVULESCU, V., dr.; ANDREANACHE, I., dr.; TEODORESCU, P., prof.; ANGELESCU, H., dr.

Considerations on the factors intervening in determining recurrence of peptic ulcer. I. The study of the exogenous factors. Med. intern. 14 no.2:175-185 F '62.

1. Lucrare efectuata in Clinica medicala, Spitalul "Bernat Andrei", I.M.F., Bucuresti (director: prof. P. Teodorescu).  
(PEPTIC ULCER)

~~TEODORESCU, P., prof.; NICOLAESCU, V., dr.; ANGHEL, E., dr.; ANDROMACHE, I., dr.; GEORGESCU, M., dr.~~

Comparative study of the morbidity of cardiovascular diseases in the  
Clinica medicala "Bernat Andrei" and in several population groups.  
Med. intern. 14 no.4:549-554 My '62.  
(CARDIOVASCULAR DISEASES) (MORBIDITY)

SAVULESCU, V., dr.; POPESCU, D.W., dr.; TEODORESCU, P., prof.

Microradiosonde in investigation of the motoricity and pH of the gastrointestinal tract. Preliminary note. Med. intern. 14 no.8: 1009-1016 Ag '62.

1. Lucrare efectuata in Clinica medicala, Spitalul "Bernat Andrei" I.M.F., Bucuresti (director: prof. P. Teodorescu).  
(GASTROINTESTINAL SYSTEM) (HYDROGEN-ION CONCENTRATION)  
(TELEMETRY)

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(OCCUPATIONS AND PROFESSIONS) (STRESS) (DIET)  
(AUTONOMIC DYSFUNCTION) (ENDOCRINOLOGY)

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(RENAL ARTERY OBSTRUCTION)

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(HYPERTENSION) (ANTIHYPERTENSIVE AGENTS)  
(GANGLIONIC-BLOCKING AGENTS)  
(BRETYLIUM COMPOUNDS) (BENZOTHIADIAZINES)  
(HYPNOTIC AND SEDATIVES)  
(DIET THERAPY)

TEODORESCU, P., prof.; SIRBULESCU, R., dr.; POMPILIAN, P., dr.;  
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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310005-4"

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of stress functions for plane strain and plane stress. In the latter case, certain approximations are involved. These could have been eliminated by interpreting plane stress as generalized plane stress. Omitted detail in the derivation leaves doubt in the reviewer's mind as to the completeness of this solution. J. L. Ericksen.

July 30, 1959

"APPROVED FOR RELEASE: 07/16/2001

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calibration of Airy's function

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Approximation method for contour conditions of a plane problem of elasticity.

p. 655 (Academie Republicii Populare Române. Institutul de Mecanica Aplicata. Studii Si Cercetari De Mecanica Aplicata. Vol. 7, no. 3, July/Sept. 1957. Bucuresti, Romania)

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February 1958

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RUMANIA

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By using biharmonic polynomials, author applies results to plane problem of elasticity theory and presents a complete example of computation.

Staff, Revue de Mecanique Appliquee  
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K. Bhagwandin (Oslo)

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Problems of the state in plane of inhomogeneous elastic bodies.  
Acta techn Hung 27 no.3/4:349-369 '59.  
(Elasticity) (ZMAI 9:6)

6111270 1538, 1327, 1103, 3807

23658  
R/008/60/000/004/009/018  
A125/A126

AUTHOR: Teodorescu, P. P.

TITLE: On some infinite systems of linear equations which interfere in the plane problem of the elasticity theory for a rectangular field

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, no. 4, 1960, 925 - 935

TEXT: In previous works (Ref. 6: Asupra calculului grinzilor pereți cu o singură deschidere. Partea I. Studii și cercetări de mecanică aplicată, VII, 1, 115, 1957 and Ref. 7: Asupra calculului grinzilor pereti cu o singură deschidere. Partea a II-a. Studii și cercetări de mecanică aplicată, VIII, 2, 451, 1957) the author has shown that the solution of the first basic problem of the elasticity theory for a rectangular field is reduced for every case of partial load to the solution of a system of linear algebraic equations with an infinity of unknowns. In the present paper he studies the regularity of these systems of infinite linear equations to see whether the solution is mathematically correct, and the external load should eventually verify some conditions, 2 a and 2b being the two dimensions of the rectangular field. The author further considers the ratios (1) as well as the case of a normal load, symmetrical

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On some infinite systems of linear ....

in relation to the geometric symmetry axes. A load, expressed by

$$\bar{p}(x) = p(x) = b_0 + \sum_n b_n \cos \gamma_n x, \quad (2)$$

is supposed to act on the  $y = \pm b$  sides. The state of stress is given by

$$\sigma_x = \sum_n (-1)^n \bar{B}_n \phi_9 (\gamma_n y) \cos \gamma_n x + \sum_m (-1)^m \bar{D}_m \phi_7' (\delta_m x) \cos \delta_m y,$$

$$\sigma_y = b_0 + \sum_n (-1)^n \bar{B}_n \phi_7 (\gamma_n y) \cos \gamma_n x + \sum_m (-1)^m \bar{D}_m \phi_9' (\delta_m x) \cos \delta_m y, \quad (4)$$

$$\tau_{xy} = \sum_n (-1)^n \bar{B}_n \phi_8 (\gamma_n y) \sin \gamma_n x + \sum_m (-1)^m \bar{D}_m \phi_8' (\delta_m y) \sin \delta_m x,$$

the functions  $\phi_1 (\beta \pi z)$  are defined by the relations

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$$\begin{aligned}\Theta_7(\vartheta\pi\zeta) &= \frac{\vartheta\pi}{\sinh\vartheta\pi} [(1 + \vartheta\pi \coth\vartheta\pi) \sinh\vartheta\pi\zeta - \vartheta\pi\zeta \sinh\vartheta\pi\zeta], \\ \Theta_8(\vartheta\pi\zeta) &= -\frac{\vartheta\pi}{\sinh\vartheta\pi} (\vartheta\pi \coth\vartheta\pi \sinh\vartheta\pi\zeta - \vartheta\pi\zeta \coth\vartheta\pi\zeta), \\ \Theta_9(\vartheta\pi\zeta) &= \frac{\vartheta\pi}{\sinh\vartheta\pi} [(1 - \vartheta\pi \coth\vartheta\pi) \sinh\vartheta\pi\zeta + \vartheta\pi\zeta \sinh\vartheta\pi\zeta].\end{aligned}\tag{7}$$

and the  $\bar{B}_n$ ,  $\bar{D}_m$  coefficient rows are given by the equation systems with a double infinity of unknowns

$$\sum_1^{\infty} \mu_{mi}^2 \bar{B}_1 + x_2 (m\lambda) \bar{D}_m = 0 \quad (m, i = 1, 2, 3, \dots)$$

$$x_2' (n\lambda') \bar{B}_n + \sum_1^{\infty} \mu_{1n}^2 \bar{D}_1 = (-1)^n b_n \quad (n, i = 1, 2, 3, \dots)$$

To solve the system (8) by approximate calculation methods, it is necessary to

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On some infinite systems of linear ....

prove the existence and the unity of the solution as well as its limits. In this case it has to be shown whether this system is infinite or not. The system (8) is completely regular if the conditions

(11)

$$\sum_1 \mu_{m1}^2 < \chi_2 (m\lambda),$$

and

$$\sum_1 \mu_{1n}^2 < \chi_2' (n\lambda')$$

(11')

are verified. On the basis of a development into a Fourier series, the author deduces these conditions to

(15)

$$2 \left( \frac{\delta_m a}{\sin \delta_m a} \right)^2 > 0$$

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and 
$$2 \left( \frac{\gamma_n^b}{\sinh \gamma_n^b} \right)^2 > 0 \quad (15')$$

which show that these values tend for  $m \rightarrow \infty$  or  $n \rightarrow \infty$  towards zero. Thus, the system (8) is regular. The free terms have to satisfy the condition

$$\bar{b}_n = \frac{b_n}{\chi_2'(n \lambda')} \leq K \rho_n' \quad (17)$$

so that one should have a limited solution obtained by approximations. But, the solution of a regular system is not always unique. With the change of variables

$$\begin{aligned} B_n' &= \gamma_n^2 \bar{B}_n, \\ D_m' &= \delta_m^2 \bar{D}_m \end{aligned} \quad (18)$$

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On some infinite systems of linear ....

the system (8) is changed into the system

$$\sum_1 \omega^2 \mu_{mi}^2 B'_1 + \chi_2 (m\lambda) D'_m = 0 \quad (19)$$

$$\chi'_2 (n\lambda') B'_n + \sum_1 \omega'^2 \mu_{ln}^2 D'_1 = \gamma_n^2 (-1)^n b_n,$$

which is also proved to be regular, the Fourier coefficient  $b_n$  being of a  $1/n^2$  value ( $\rho_m$  and  $\rho'_n$  tend for  $m \rightarrow \infty$  and  $n \rightarrow \infty$  towards zero). By the change of variables, one obtains a regular system with limited free terms. On the basis of P. S. Bondarenko (Ref. not given) it can be proved that the solution of both systems is unique. For the system (8) the  $b_n$  Fourier coefficients have to be only of the  $1/n^2$  value. To reduce the restriction imposed on the external loads, the author deduces by the change of variables

$$\bar{B}'_n = \gamma_n \bar{B}_n, \quad (24)$$

$$\bar{D}'_m = \delta_m \bar{D}_m.$$

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